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(3) QTL mapping and validation of fertility restoration in West African sorghum A1 cytoplasm and identification of a potential causative mutation for Rf2

Authors
Moctar Kante, Henry Frederick W. Rattunde, Baloua Nébélé, Eva Weitzel, Bettina L. G. Haussmann, Willmar L. Leier

Abstract

*Key message* Major A1 cytoplasm fertility restoration loci, Rf2 and Rf3, were found in the West African sorghum. A potential causative mutation for Rf3 was identified. KASP markers were validated on independent material.
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Abstract

Nodal root angle in sorghum influences vertical and horizontal root distribution in the soil profile and is thus relevant to drought adaptation. In this study, we report for the first time on the mapping of four QTL for nodal root angle (gRA) in sorghum, in addition to three QTL for root dry weight, two for shoot dry weight, and three for plant leaf area. Phenotyping was done...
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2. Evaluation and association mapping of agronomic traits for drought tolerance in sorghum [Sorghum bicolor (L.) Moench]  
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3. QTL for spot blotch resistance in bread wheat line Saar co-locate to the biotrophic disease resistance loci Lr34 and Lr46  
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